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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/705,525	BARTA ET AL.			
		Examiner	Art Unit			
		Qing Chen	2191			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>06 Ju</u>	ılv 2009				
'=	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>1,3-13 and 41</u> is/are pending in the application.					
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1,3-13 and 41</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
•	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
,	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	nte			

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#### **DETAILED ACTION**

1. This Office action is in response to the amendment filed on July 6, 2009.

2. **Claims 1, 3-13, and 41** are pending.

3. Claims 1 and 41 have been amended.

4. Claims 2 and 14-40 have been canceled.

5. The objection to Claim 1 is withdrawn in view of Applicant's amendments to the claim.

However, Applicant's amendments to the claims fail to fully address the objection to Claim 41

due to improper antecedent basis. Accordingly, this objection is maintained and further explained

hereinafter.

6. It is noted that the "accessing the semantic model [...]" limitation of Claim 41 has been

deleted in the immediate prior version of the claim (received on 01/15/2009). However, the

instant version of the claim still recites this limitation and includes additional amendments. In the

interest of compact prosecution, the Examiner subsequently examines the claim as currently

presented for the purpose of further examination.

#### Response to Amendment

#### Claim Objections

7. Claims 1 and 41 are objected to because of the following informalities:

• Claim 1 contains the following typographical errors:

The word "and" at the end of the "including [...] a data structure" limitation

should be deleted. It is noted that the word "and" has been deleted in the immediate

prior version of the claim (received on 01/15/2009).

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o The comma (,) at the end of the word "and" should be deleted.

• Claim 41 recites the limitation "the dependency information." Applicant is advised to change this limitation to read "the plurality of dependency information" for the purpose of providing it with proper explicit antecedent basis.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1, 3, 4, and 6-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,442,754 (hereinafter "Curtis") in view of US 6,725,452 (hereinafter "Te'eni") and US 6,675,382 (hereinafter "Foster").

As per Claim 1, Curtis discloses:

- including, in an installation package for the application, a data structure that provides, for each of the plurality of software components from the application, a software component deployment dependency data, an indication of necessary software components for an operation of each of the plurality of software components being installed (see Figure 5; Column 6: 29-35, "The install program further includes a program object 303 comprised of file set objects 340.

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Within each file set object 340 there are multiple install objects 330. There are several types of install objects--file object 331, registry object 332 ..."; Column 13: 7-27 and 33-37, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree." and "Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate. The dependency subdirectory would list the program name, version, fileset name, and fileset version for each program on which the fileset including the dependency subdirectory depends." and "... the dependency directory may indicate dependent file sets or registry objects that are the subject matter of the processed dependency object. If there are no dependent components, then the dependency directory will contain no values.");

- loading the installation package into a memory connected to a computer (see Figure 1: 10; Column 5: 29-31, "The programs in memory 12 includes an operating system (OS) 16 program and application programs, such as an install program 17 or an installer tool kit."); and
- using the computer so configured by the installation package (see Figure 1: 10; Column 5: 29-31, "The programs in memory 12 includes an operating system (OS) 16 program and application programs, such as an install program 17 or an installer tool kit."), performing the steps of:
- determining a first plurality of software components previously installed on a system (see Column 11: 11-20, "... a call to the check\_dependency function ... This function

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determines whether the file, program or registry object indicated in the dependency object 400 is installed on the computer.");

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- determining a second plurality of software components to be installed on the system (see Figure 2: 340; Column 11: 23-24, "... a file set 340 is installed.");
- accessing a third plurality of software component deployment dependency data (see Column 13: 18-21, "Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate."); and
- accessing a sixth plurality of metadata from the data structure regarding the second plurality of software components to be installed and accessing a seventh plurality of metadata regarding the first plurality of software components previously installed (see Column 13: 13-15 and 21-24, "A root directory includes a sub-directory for each installed program, indicating the program name and version." and "The dependency subdirectory would list the program name, version, fileset name, and fileset version for each program on which the fileset including the dependency subdirectory depends.").

However, <u>Curtis</u> does not disclose:

- an indication of incompatibility with a previously installed software component;
- determining a fourth plurality of software components suitable for parallel installation;
- determining an order in which the fourth plurality of software components can be grouped for a fifth plurality of parallel installations;

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- analyzing the sixth plurality of metadata to determine an eight plurality of potential conflicts between the second plurality of software components to be installed and the first plurality of software components previously installed on the system;

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- wherein a pre-deployment analysis allows the second plurality of software components to be installed in parallel and in a sequence of groups; and
  - wherein an installation time for the application is reduced.

#### Te'eni discloses:

- an indication of incompatibility with a previously installed software component (see Column 1: 61-64, "When performing the predefined procedures necessary for an upgrade to be implemented frequently dependency conflicts may arise among the components present and the components to be installed."; Column 5: 10-17, "Virtual upgrade module 36 creates upgrade processes for the following tasks that are performed sequentially: (a) to collect all the information necessary for the dependency analysis and the dependency conflicts resolving process such as the relevant component data information units from component data table 28, the encoded dependency rules from xor-rules table 32 and from add-remove rules table 34 module ..."); and
- analyzing a sixth plurality of metadata to determine an eight plurality of potential conflicts between a second plurality of software components to be installed and a first plurality of software components previously installed on a system (see Column 1: 61-64, "When performing the predefined procedures necessary for an upgrade to be implemented frequently dependency conflicts may arise among the components present and the components to be installed."; Column 5: 10-20, "Virtual upgrade module 36 creates upgrade processes for the

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following tasks that are performed sequentially: (a) to collect all the information necessary for the dependency analysis and the dependency conflicts resolving process such as the relevant component data information units from component data table 28, the encoded dependency rules from xor-rules table 32 and from add-remove rules table 34 module, (b) to activate conflict resolver module 40 in order to check for potential dependency conflicts and to resolve any dependency conflicts that might arise as a result of the planned installation process ...").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of <u>Te'eni</u> into the teaching of <u>Curtis</u> to modify <u>Curtis</u>' invention to include an indication of incompatibility with a previously installed software component; and analyzing the sixth plurality of metadata to determine an eight plurality of potential conflicts between the second plurality of software components to be installed and the first plurality of software components previously installed on the system. The modification would be obvious because one of ordinary skill in the art would be motivated to prevent any unsuccessful installation (see Te'eni – Column 1: 64-66).

#### Foster discloses:

- determining a fourth plurality of software components suitable for parallel installation (see Column 10: 6-8, "... other packages may be concurrently installed that require the presence of package 200 on the system.");
- determining an order in which the fourth plurality of software components can be grouped for a fifth plurality of parallel installations (see Column 10: 8-10, "... the system checks the dependencies between package 200 and the packages that are being simultaneously installed.");

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- wherein a pre-deployment analysis allows a second plurality of software components to be installed in parallel and in a sequence of groups (see Column 10: 8-10, "... the packages that are being simultaneously installed."); and
- wherein an installation time for an application is reduced (see Column 10: 8-10, "... the packages that are being simultaneously installed.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of <u>Foster</u> into the teaching of <u>Curtis</u> to modify <u>Curtis</u>' invention to include determining a fourth plurality of software components suitable for parallel installation; determining an order in which the fourth plurality of software components can be grouped for a fifth plurality of parallel installations; wherein a pre-deployment analysis allows the second plurality of software components to be installed in parallel and in a sequence of groups; and wherein an installation time for the application is reduced. The modification would be obvious because one of ordinary skill in the art would be motivated to provide an efficient and simple solution for packaging, distributing and installing software (see <u>Foster</u> – Column 1: 43-44).

As per Claim 3, the rejection of Claim 1 is incorporated; and <u>Curtis</u> further discloses:

- updating the data structure with an identity of a ninth plurality of recently installed software components (see Column 13: 28-30, "The information in this directory is created whenever a component is installed. For instance, whenever a program is installed, a subdirectory is created under the root directory.").

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As per Claim 4, the rejection of Claim 1 is incorporated; and <u>Curtis</u> further discloses:

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- providing a user with a plurality of options for the eight plurality of potential conflicts (see Column 12: 35-45, "If so, control transfers to block 534 where the program displays on the display means 14 the name of the dependent component that was not located on the system and a radio button to allow the user to selectively cause the execution of the install script in the Install 416 or SInstall 418 fields. If there is not install script, then control transfers to block 536 where the program displays information maintained in the install information field 426 to inform the user on where to obtain the dependent component that is needed before the program may be installed.").

As per Claim 6, the rejection of Claim 4 is incorporated; and <u>Curtis</u> further discloses:

- wherein a second option includes continuing an installation (see Column 12: 51-53, "When the user selects to install the file, the install program 17 will execute the install script in either the Install 416 or SInstall field 418.").

As per Claim 7, the rejection of Claim 6 is incorporated; and <u>Curtis</u> further discloses:

- upon the exercise of the second option, recording an entry in a log indicative of a conflict and of a continuation of installation (see Figure 2: 140; Column 7: 4-5, "During install, the log 140 and 'uninstall.Java1' 150 information are built."; Column 8: 24-29, "... providing various logs, e.g. a log for keeping track of what is being installed, and a log that reports the progress of install. Logs are used for both the install and uninstall process. Furthermore, these

logs are human readable which allows them to be checked, e.g., after a silent install, to ensure that a file has installed successfully.").

As per Claim 8, the rejection of Claim 1 is incorporated; and <u>Curtis</u> further discloses:

- initiating a removal of a software component from a system (see Figure 6: 560; Column 13: 50-51, "... the program processes a request to uninstall a program."); and
- identifying a tenth plurality of remaining software components which depend on the software component to be removed (see Column 13: 59-62, "The uninstall program may navigate the directory structure from the dependency directory shown in FIG. 5 to determine dependent programs that depend on the program subject to the uninstallation.").

As per Claim 9, the rejection of Claim 8 is incorporated; and Curtis further discloses:

- providing a user with a plurality of options if the tenth plurality of dependent remaining software components are identified (see Column 12: 35-45, "If so, control transfers to block 534 where the program displays on the display means 14 the name of the dependent component that was not located on the system and a radio button to allow the user to selectively cause the execution of the install script in the Install 416 or SInstall 418 fields. If there is not install script, then control transfers to block 536 where the program displays information maintained in the install information field 426 to inform the user on where to obtain the dependent component that is needed before the program may be installed.").

As per Claim 10, the rejection of Claim 9 is incorporated; and Curtis further discloses:

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- wherein a first option includes aborting a removal (see Figure 6: 570; Column 13: 62-63, "Control then transfers to block 570 to exit uninstallation ...").

As per Claim 11, the rejection of Claim 9 is incorporated; and Curtis further discloses:

- wherein a second option includes continuing a removal (see Figure 6: 568; Column 13: 55-56, "Otherwise, control transfers to block 568 to proceed with the uninstallation.").

As per Claim 12, the rejection of Claim 8 is incorporated; and Curtis further discloses:

- identifying a first software component previously installed on a system which is dependent upon a removed software component (see Column 13: 4-6 and 64-67, "... before uninstalling a program, a determination may be made as to whether other installed components depend on the file being uninstalled." and "... information indicating the depending programs that should be uninstalled before continuing with the uninstallation of the program, which is a dependent program."); and
- determining an identity of a second software component upon which the first software component depends (see Column 13: 1-4, "During installation of a dependent program, dependency information from the Dependency Object 400 may be written to a dependency location indicating dependent components of the installed file.").

As per Claim 13, the rejection of Claim 12 is incorporated; and <u>Curtis</u> further discloses:

- installing the second software component upon which the first software component depends (see Column 13: 1-4, "During installation of a dependent program, dependency

information from the Dependency Object 400 may be written to a dependency location indicating dependent components of the installed file."); and

- creating a dependency link between the first software component and the second software component (see Column 13: 1-4, "Dependency Object 400 may be written to a dependency location indicating dependent components of the installed file.").
- 10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Curtis in view of Te'eni and Foster as applied to Claim 4 above, and further in view of US 6,918,112 (hereinafter "Bourke-Dunphy").

As per Claim 5, the rejection of Claim 4 is incorporated; however, <u>Curtis</u>, <u>Te'eni</u>, and Foster do not disclose:

- wherein a first option includes aborting an installation.

#### Bourke-Dunphy discloses:

- wherein a first option includes aborting an installation (see Figure 5: 236; Column 8: 35-38, "... the user may select a CANCEL action button 236 to return to the component selection user interface ... where the user may manually modify the component selections.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of <u>Bourke-Dunphy</u> into the teaching of <u>Curtis</u> to modify <u>Curtis</u>' invention to include wherein a first option includes aborting an installation. The modification would be obvious because one of ordinary skill in the art would be motivated to

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allow the user to exit the current installation, correct the error identified, and reinitiate the installation procedure (see <u>Bourke-Dunphy</u> – Column 1: 27-34).

11. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Curtis in view of Foster.

### As per Claim 41, Curtis discloses:

- accessing the semantic model to obtain a dependency information about software components of an application (see Figure 5; Column 13: 7-27 and 33-37, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree." and "Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate. The dependency subdirectory would list the program name, version, fileset name, and fileset version for each program on which the fileset including the dependency subdirectory depends." and "... the dependency directory may indicate dependent file sets or registry objects that are the subject matter of the processed dependency object. If there are no dependent components, then the dependency directory will contain no values.");
- including a semantic model in an installation package of the application (see Figure 5; Column 6: 29-35, "The install program further includes a program object 303 comprised of file set objects 340. Within each file set object 340 there are multiple install objects 330. There

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are several types of install objects--file object 331, registry object 332 ..."; Column 13: 7-27, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree.");

- responsive to loading the installation package into a memory connected to a computer, using the computer so configured by the installation package (see Figure 1: 10; Column 5: 29-31, "The programs in memory 12 includes an operating system (OS) 16 program and application programs, such as an install program 17 or an installer tool kit.") to perform steps comprising:
- storing a first record of each of a plurality of the software components that is to be deployed in a read file (see Column 9: 20-24, "The dependency object 400 is used during install and uninstall operations to determine whether any files or programs upon which the program to install needs in order to operate are installed and determine whether any programs to uninstall are required by already installed programs.");
- storing a second record of each of a plurality of previously installed software components in a registry file (see Column 13: 7-27, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree.");

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- when the read file is available to deploy, examining the registry file and accessing the semantic model to obtain a plurality of dependency information indicating a plurality of relationships among the plurality of the software components to be installed in the target and among a plurality of previously installed software components (see Column 13: 7-47, "Each installed program includes a next level subdirectory for each file set of the installed program, indicating the file set name and version. Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate." and "The registry route 436 in the dependency object 400 indicates the location of the dependency directory in the registry file where the dependency information for a particular dependency object is maintained." and "The registry route 436 is used to determine the dependency directory of where to write dependency information when the program is installed.");
- using the plurality of dependency information to group the plurality of the software components into sets of software components with like dependency levels, wherein a first set of software components from amongst the sets of software components has no dependencies, a second set of software components from amongst the sets of software components has dependencies only on the first set of software components, and a third set of software components from amongst the sets of software components has dependencies only on the first and second sets of software components (see Figure 5; Column 13: 7-27 and 33-37, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets,

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and dependent components in the form of a directory tree." and "Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate. The dependency subdirectory would list the program name, version, fileset name, and fileset version for each program on which the fileset including the dependency subdirectory depends." and "... the dependency directory may indicate dependent file sets or registry objects that are the subject matter of the processed dependency object. If there are no dependent components, then the dependency directory will contain no values.");

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- when a component is installed, updating the registry file (see Column 11: 63-65, "As discussed, information on installed components is added to a registry file, e.g., registry 220, when the components are installed.");
- when a conflict is identified, taking an appropriate action (see Column 12: 35-45, "If so, control transfers to block 534 where the program displays on the display means 14 the name of the dependent component that was not located on the system and a radio button to allow the user to selectively cause the execution of the install script in the Install 416 or SInstall 418 fields. If there is not install script, then control transfers to block 536 where the program displays information maintained in the install information field 426 to inform the user on where to obtain the dependent component that is needed before the program may be installed."); and
- displaying a progress report by labeling the plurality of the software components in the semantic model in a selected level of granularity (see Figure 2: 140; Column 7: 4-5, "During install, the log 140 and 'uninstall.Java1' 150 information are built."; Column 8: 24-29, "... providing various logs, e.g. a log for keeping track of what is being installed, and a log that

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reports the progress of install. Logs are used for both the install and uninstall process.

Furthermore, these logs are human readable which allows them to be checked, e.g., after a silent install, to ensure that a file has installed successfully.").

However, Curtis does not disclose:

- installing the first set of software components in parallel;
- responsive to completing installation of the first set of software components, installing the second set of software components in parallel; and
- responsive to completing installation of the second set of software components, installing the third set of software components in parallel.

#### Foster discloses:

- installing a first set of software components in parallel (see Column 10: 6-10, "... other packages may be concurrently installed that require the presence of package 200 on the system." and "... the packages that are being simultaneously installed.");
- responsive to completing installation of the first set of software components, installing a second set of software components in parallel (see Column 10: 6-10, "... other packages may be concurrently installed that require the presence of package 200 on the system." and "... the packages that are being simultaneously installed."); and
- responsive to completing installation of the second set of software components, installing a third set of software components in parallel (see Column 10: 6-10, "... other packages may be concurrently installed that require the presence of package 200 on the system." and "... the packages that are being simultaneously installed.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of <u>Foster</u> into the teaching of <u>Curtis</u> to modify <u>Curtis</u>' invention to include installing the first set of software components in parallel; responsive to completing installation of the first set of software components, installing the second set of software components in parallel; and responsive to completing installation of the second set of software components, installing the third set of software components in parallel. The modification would be obvious because one of ordinary skill in the art would be motivated to provide an efficient and simple solution for packaging, distributing and installing software (see <u>Foster</u> – Column 1: 43-44).

## Response to Arguments

12. Applicant's arguments filed on July 6, 2009 have been fully considered, but they are not persuasive.

#### In the Remarks, Applicant argues:

a) Thus, it is a "conflict resolver module 40" in Te'eni that checks for conflicts which is a natural result since there is not [sic] static, pre-stored information regarding known conflicts that exist between a software component to be installed and a software component already installed in an installation package for the components of the application. So much, however, is expressly required by the claim language of claim 1. Accordingly, the combination of Curtis, Te'eni and Foster do note provide a teaching to each element claimed in claim 1 as required by the Examination Guidelines, rationale (A).

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## Examiner's response:

Examiner disagrees. With respect to the Applicant's assertion that Te'eni does not teach a) "an indication of incompatibility with a previously installed software component," as previously pointed out in the Non-Final Rejection (mailed on 04/03/2009) and further clarified hereinafter, the Examiner respectfully submits that Te'eni clearly discloses "an indication of incompatibility with a previously installed software component" (see Column 1: 61-64, "When performing the predefined procedures necessary for an upgrade to be implemented frequently dependency conflicts may arise among the components present and the components to be installed."; Column 5: 10-17, "Virtual upgrade module 36 creates upgrade processes for the following tasks that are performed sequentially: (a) to collect all the information necessary for the dependency analysis and the dependency conflicts resolving process such as the relevant component data information units from component data table 28, the encoded dependency rules from xor-rules table 32 and from add-remove rules table 34 module ..."). Note that it is well-know in the art that when performing an upgrade of a software program, dependency conflicts may arise among the software components present (previously installed software components) and the software components to be installed. Te'eni's invention attempts to resolve such dependency conflicts by utilizing a virtual upgrade module to collect all the information necessary for the dependency analysis and the dependency conflicts resolving process (an indication of incompatibility with a previously installed software component).

Therefore, for at least the reason set forth above, the rejection made under 35 U.S.C. § 103(a) with respect to Claim 1 is proper and therefore, maintained.

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In the Remarks, Applicant argues:

b) However, column 13 of Curtis only provides for the hierarchical arrangement of

components and dependency data in a registry as provided by column 13 of Curtis reproduced

herein as follows:

. . .

As will be apparent from a review of the recited portion of Curtis, no teaching can be

found pertaining to the grouping of components into sets with like dependency levels. In that

claim 41 requires this precise teaching, Examiner has not satisfied the requirements of rationale

(A) set forth by the Examination Guidelines.

Examiner's response:

b) Examiner disagrees. With respect to the Applicant's assertion that no teaching can be

found in Curtis pertaining to the grouping of components into sets with like dependency levels,

as previously pointed out in the Non-Final Rejection (mailed on 04/03/2009) and further clarified

hereinafter, the Examiner respectfully submits that Curtis clearly discloses "using the plurality of

dependency information to group the plurality of the software components into sets of software

components with like dependency levels, wherein a first set of software components from

amongst the sets of software components has no dependencies, a second set of software

components from amongst the sets of software components has dependencies only on the first set

of software components, and a third set of software components from amongst the sets of

software components has dependencies only on the first and second sets of software

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components" (see Figure 5; Column 13: 7-27 and 33-37, "... a data structure ... is maintained in the registry object or registry database 220, indicating installed programs and dependent components on which installed programs depend. In the embodiment of FIG. 5, the data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree." and "Each installed file set component has a Dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate. The dependency subdirectory would list the program name, version, fileset name, and fileset version for each program on which the fileset including the dependency subdirectory depends." and "... the dependency directory may indicate dependent file sets or registry objects that are the subject matter of the processed dependency object. If there are no dependent components, then the dependency directory will contain no values."). Attention is drawn to Figure 5 of Curtis which clearly illustrates a data structure indicating installed programs and dependent components on which installed programs depend. The data structure is a hierarchical arrangement of programs, file sets, and dependent components in the form of a directory tree. Note that if there are no dependent components, then the dependency directory will contain no values (first set of software components). And each installed file set component has a dependency subdirectory which includes information on each dependent component on which the file set and program depend in order to operate (second set of software components and third set of software components).

Therefore, for at least the reason set forth above, the rejection made under 35 U.S.C. § 103(a) with respect to Claim 41 is proper and therefore, maintained.

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#### Conclusion

13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Qing Chen whose telephone number is 571-270-1071. The Examiner can normally be reached on Monday through Thursday from 7:30 AM to 4:00 PM. The Examiner can also be reached on alternate Fridays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Wei Zhen, can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Q. C./

Examiner, Art Unit 2191

/Wei Y Zhen/

Supervisory Patent Examiner, Art Unit 2191